

### AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A document information processing apparatus comprising:  
a plain document input unit for inputting a plain document;  
a dictionary storage unit for storing a dictionary used for form element analysis and syntactic analysis;  
a form element analyzer for performing a form element analysis on the plain document inputted from said plain document input unit by using the dictionary stored in said dictionary storage unit so as to decompose the plain document into tokens;  
a syntax analyzer for analyzing a part of speech of each of the tokens obtained by said form element analyzer based on a syntax of said plain document so as to generate a structured document containing meaningful words;  
a data storage unit for storing data used for a markup process;  
an element refinement processing unit for performing the markup process of reading each of the meaningful words in the structured document and automatically adding content to the structured document in association with at least one of the meaningful words in order to generate a markup document, ~~said added content including data read from said data storage unit or data generated according to a determined attribute of the at least one of the meaningful words;~~ and  
a markup document output unit for outputting the markup document generated by said element refinement processing unit,

wherein

the added content is different from the markup tags in the markup document, and  
the added content includes at least one of:  
data, which is related to at least one of the meaningful words and which is  
read from the data storage unit, and  
data, which is related to at least one of the meaningful words and which is  
generated according to a determined attribute of the at least one of the meaningful words.

2. (Previously Presented) The document information processing apparatus according to claim 1, wherein said apparatus further includes a text document input unit for generating a plain text document and sending the generated plain text document to said plain document input unit.

3. (Previously Presented) The document information processing apparatus according to claim 1, wherein said apparatus further includes an external communication input unit for inputting a plain document from outside said apparatus via a communication device, and sends the inputted plain document to said plain document input unit.

4. (Previously Presented) The document information processing apparatus according to claim 1, wherein said apparatus further includes an external communication input unit for inputting a document on which a markup process has been performed from outside said apparatus via a communication device, and a markup document analyzer for analyzing and removing markups from the document inputted by said external communication input unit so as to generate a plain document to be sent to said markup document input unit.

5. (Previously Presented) The document information processing apparatus according to Claim 1, wherein said apparatus further includes an external communication input unit for inputting an e-mail from outside said apparatus via a communication device, and an e-mail structure analyzer for analyzing a structure of the e-mail from said external communication input unit so as to generate a plain document, and for sending the generated plain document to a markup document input unit.

6. (Previously Presented) The document information processing apparatus according to Claim 2, wherein said apparatus further includes an external communication output unit for sending the markup document from said markup document output unit to an external device.

7. (Previously Presented) The document information processing apparatus according to Claim 3, wherein said apparatus further includes an external communication output unit for

sending the markup document from said markup document output unit to an external device.

8. (Previously Presented) The document information processing apparatus according to Claim 4, wherein said apparatus further includes an external communication output unit for sending the markup document from said markup document output unit to an external device.

9. (Previously Presented) The document information processing apparatus according to Claim 5, wherein said apparatus further includes an external communication output unit for sending the markup document from said markup document output unit to an external device.

10. (Previously Presented) The document information processing apparatus according to Claim 1, wherein said element refinement processing unit includes an element relation analyzer for automatically classifying at least one of the meaningful words as a meaningful element, the meaningful element indicating a meaning or attribute of the corresponding meaningful word.

11. (Previously Presented) The document information processing apparatus according to Claim 10, wherein said apparatus further includes a proper name element processing unit for adding a markup to a proper name element indicating a proper name, and said element relation analyzer initiates operation of said proper name element processing unit when the meaningful element is determined to be a proper name element.

12. (Previously Presented) The document information processing apparatus according to Claim 10, wherein said apparatus further includes a time element processing unit for adding a markup to a time element indicating a time, and said element relation analyzer initiates operation of said time element processing unit when the meaningful element is determined to be a time element.

13. (Original) The document information processing apparatus according to Claim 12, wherein said apparatus further includes a time processing unit for computing a date

corresponding to a time element, and said time element processing unit adds the date from said time processing unit, as a markup, to the time element.

14. (Previously Presented) The document information processing apparatus according to Claim 10, wherein said apparatus further includes a position element processing unit for adding a markup to a position element indicating a position, and said element relation analyzer initiates operation of said position element processing unit when the meaningful element is determined to be a position element.

15. (Original) The document information processing apparatus according to Claim 14, wherein said apparatus further includes a current position estimation unit for estimating a current position corresponding to the position element, and said position element processing unit adds the current position from said current position estimation unit, as a markup, to the position element.

16. (Previously Presented) The document information processing apparatus according to Claim 10, wherein said apparatus further includes an act element processing unit for adding a markup to an act element indicating an act, and said element relation analyzer initiates operation of said act element processing unit when the meaningful element is determined to be an act element.

17. (Previously Presented) The document information processing apparatus according to Claim 1, wherein

the element refinement processing unit determines an attribute of the at least one meaningful word, and adds a markup tag to the structured document identifying the attribute, the added content being associated with the markup tag.

18. (Previously Presented) The document information processing apparatus according to Claim 17, wherein the added content is at least one of a definition, a Uniform Resource Identifier

(URI) of a stored definition, or explanatory data relating to the attribute.

19. (Previously Presented) The document information processing apparatus according to Claim 17, wherein the added content indicates a current position or date associated with the attribute.

20. (Previously Presented) The document information processing apparatus according to Claim 17, wherein the determined attribute is classified as one of the following elements associated with the at least one meaningful word: a proper name element, a position element, a time element, and a verb element.

21. (Previously Presented) The document information processing apparatus according to Claim 18, wherein the added content is obtained from a database entry in the data storage unit associated with the at least one meaningful word.